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a movement means for moving said transparent cylinder and said light source and detector in a longitudinal axis relative to one another.

- 1 10. (Amended Twice) A spin cytometer, comprising:
- a rotating means adapted to rotate a transparent cylinder about a longitudinal axis of the transparent cylinder;
 - a light source adapted to illuminate at least a portion of the transparent cylinder while the transparent cylinder is being rotated by the rotating means;
 - a detector means for detecting a light signal generated by the light source and reflected from the transparent cylinder while the transparent cylinder is being rotated by the rotating means;
 - determining means for determining at least one cytometric characteristic of a sample disposed in said transparent cylinder based on said detected light signal; and
 - a movement means for moving the transparent cylinder and the light source and detector means in relative motion.
- 1 19. The spin cytometer of claim 18, wherein the organic photoreceptor
- material is activated by a wave length of approximately 300 nanometers to
- approximately 800 nanometers.
- 1 23. The spin cytometer of claim 22, wherein the light emitting diode is adapted
- to emit a light having a wavelength of between approximately 300 nanometers
- 3 and 800 nanometers.

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